



5515 North Service Rd. #306  
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## 1. PRODUCT IDENTIFICATION

**Name:** *Aromatic 100*

**Synonyms:** *light aromatic solvent naphtha; high flash aromatic naphtha*

**CAS#** 64742-94-6

**Product Uses:** *solvent.*

**Supplier Identifier:** *Megaloid Laboratories Limited  
5515 North Service Road, Ste 306  
Burlington, Ontario, Canada  
L7L 6G4  
Phone: 905-337-7411 / Fax: 905-337-1686*

**EMERGENCY INFORMATION** Call CHEMTREC - (800) 424-9300 (CCN # 693764)

## 2. HAZARDS

<b>GHS Class</b> <i>(category)</i>	<b>Flammable</b> <i>(3)</i>	<b>Carcinogen</b> <i>(2)</i>	<b>Aspiration hazard</b> <i>(1)</i>	<b>STOT</b> <i>(3)</i>	<b>STOT</b> <i>(3)</i>
<b>Signal Word</b>	<b>DANGER</b>				
<b>Hazard Statements</b>	<i>Flammable liquid &amp; vapour (H226)</i>	<i>Suspected of causing cancer (H351)</i>	<i>May be fatal if swallowed &amp; enters airways (H304)</i>	<i>May cause dizziness or drowsiness (H336)</i>	<i>May cause respiratory irritation (H335)</i>



**Label Pictograms**

### GHS Precautionary Statements for Labelling

#### **Prevention**

- P201** Obtain special instructions before use.
- P202** Do not handle until all safety precautions have been read.
- P210** Keep away from heat, sparks, open flames and hot surfaces. No smoking.
- P240** Ground / bond container and receiving equipment.
- P241** Use explosion-proof electrical, ventilating, and lighting equipment.

<b>P242</b>	Use only non-sparking tools.
<b>P243</b>	Take precautionary measures against static discharge.
<b>P261</b>	Avoid breathing vapours.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P273</b>	Avoid release to the environment.
<b>P280</b>	Wear eye protection, protective gloves and clothing of butyl rubber
<b>Response</b>	
<b>P301, P310</b>	IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
<b>P303, P361, P353</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
<b>P304, P340</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<b>P308, P313</b>	IF EXPOSED OR CONCERNED: Get medical advice or attention.
<b>P312</b>	Call a POISON CENTRE or doctor if you feel unwell.
<b>P331</b>	Do NOT induce vomiting.
<b>P332, P313</b>	IF SKIN IRRITATION OCCURS: Get medical advice/attention.
<b>P370, P378</b>	IN CASE OF FIRE: Use appropriate foam, dry chemical powder, water spray or fog to extinguish.
<b>P391</b>	Collect spillage.
<b>Storage</b>	
<b>P403, P235</b>	Store in a well-ventilated place. Keep cool.
<b>P405</b>	Store locked up.
<b>Disposal</b>	
<b>P501</b>	Dispose of contents and container in accordance with local, regional, national and international regulations.

### 3. COMPOSITION

Chemical Name:	CAS No.	%	Other Identifiers
<i>Light Aromatic Solvent naphtha</i>	64742-95-6	30 - 60	EC # 265-199-0
<i>1,2,4-Trimethylbenzene</i>	95-63-6	15 - 40	EC # 202-436-9
<i>1,3,5-Trimethylbenzene</i>	108-67-8	7 - 13	EC # 203-604-4
<i>1,2,3-Trimethylbenzene</i>	526-73-8	1 - 5	EC # 208-394-8
<i>Cumene</i>	98-82-8	<1	EC # 202-704-5

### 4. FIRST AID

#### Inhalation

*Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.*

#### Skin Contact

*Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered.*

#### Eye Contact

*Wash eyes with plenty of water, holding eyelids open. Seek medical assistance if there is any irritation.*

## Ingestion

Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

### **First-aid Comments**

*Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.*

## 5. FIRE FIGHTING & FLAMMABILITY

### Extinguishing Media

#### **Suitable Extinguishing Media**

*Foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water - water jet spreads flames*

### Combustion Products

**Carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments.**

### Static Charge Accumulation

*Readily accumulates a static charge on agitation or pumping.*

### Special Protective Equipment and Precautions for Fire-fighters

*Firefighters must wear SCBA. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.*

### Static Charge Accumulation

*Readily accumulates a static charge on agitation or pumping; high flash point reduces ignition risk.*

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

*Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Restrict access to area until completion of cleanup. Ensure cleanup is conducted by trained personnel only. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Eliminate all ignition sources. Use grounded, explosion-proof equipment. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient. Notify government occupational health and safety and environmental authorities.*

### Environmental Precautions

*It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.*

### Methods and Materials for Containment and Cleaning Up

*Leak Precaution: dyke to control spillage and prevent environmental contamination*

*Handling Spill: Ventilate contaminated area; recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep & pick up using plastic or aluminium shovel, & store in closed containers for recycling or disposal.*

### Other Information

*Report spills to local health, safety and environmental authorities, as required.*

## 7. HANDLING & STORAGE

### Precautions for Safe Handling

It is prudent to ground or electrically bond the source container, receiving container and pumps before transferring contents. Avoid splashing by ensuring that the product nozzle is below the surface in the receiving container. Empty containers may contain a flammable or explosive vapour. Always ensure that containers, whether empty or full, are tightly sealed unless in use. Avoid generating or breathing product vapour. If vapour forms in use, install adequate ventilation. If dealing with a spill, and ventilation is impossible or impractical, a suitable respirator with organic vapour cartridge is recommended.

Never cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin & wash work clothes frequently. An eye bath must be available near the workplace.

### Conditions for Safe Storage

Store & use in a cool, dry environment, away from sources of ignition & oxidising agents.

## 8. EXPOSURE CONTROL & PERSONAL PROTECTION

### LIGHT AROMATIC SOLVENT NAPHTHA:

Ontario TWAEV	200 mg / m <sup>3</sup> (40ppm)	Ontario STEV	not listed
AGGIH TLV	200 mg / m <sup>3</sup> (40ppm)	ACGIH STEL	not listed
OSHA PEL	400 mg / m <sup>3</sup> (100 ppm)	OSHA STEL	not listed

### TRIMETHYLBENZENE ISOMERS:

Ontario TWAEV	25ppm	Ontario STEV	not listed
AGGIH TLV	25ppm	ACGIH STEL	not listed
OSHA PEL	25ppm	OSHA STEL	not listed

### CUMENE:

Ontario TWAEV	50ppm	Ontario STEV	not listed
AGGIH TLV	50ppm	ACGIH STEL	not listed
OSHA PEL	50ppm	OSHA STEL	not listed

<b>Ventilation</b>	due to low vapour pressure, mechanical ventilation may not be required to control airborne titre
<b>Hands</b>	"Viton" gloves recommended – other types may also protect; confirm suitability with supplier
<b>Eyes</b>	Safety glasses with side shields – always protect the eyes
<b>Clothing</b>	no special protective clothing required

### Appropriate Engineering Controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosionproof ventilation equipment.

## 9. PHYSICAL PROPERTIES

<b>Appearance</b>	clear, colourless, mobile liquid
<b>Odour</b>	aromatic (gasoline-like) odour
<b>Odour threshold</b>	not known

<b>pH</b>	<i>none – does not dissociate to yield hydrogen ions</i>
<b>Melting Point/Freezing Point</b>	<i>below -30°C / -22°F</i>
<b>Initial Boiling Point/Range</b>	<i>165°C to 180°C / 329°F to 356°C</i>
<b>Flash Point</b>	<i>35°C / 95°F</i>
<b>Evaporation Rate</b>	<i>approximately 0.2 (Butyl Acetate =1)</i>
<b>Flammability ( Solid, Gas)</b>	<i>Not Available</i>
<b>Upper/Lower Flammability or Explosive Limit</b>	<i>0.7% to 7%</i>
<b>Vapour Pressure</b>	<i>7.5mmHg / 1kPa (20°C)</i>
<b>Vapour Density (air = 1)</b>	<i>4</i>
<b>Specific Gravity</b>	<i>0.87 (20/20°C)</i>
<b>Water Solubility</b>	<i>approximately 200 milligrams/litre – negligible. Also soluble in hydrocarbons and many organic solvents like aldehydes, ethers</i>
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	<i>2 to 6 – range for different molecular species present</i>
<b>Auto-ignition Temperature</b>	<i>above 400°C / 752°F</i>
<b>Conversion Factor</b>	<i>Not available</i>
<b>Viscosity</b>	<i>7.5mmHg / 1kPa (20°C)</i>
<b>Physical State</b>	<i>Liquid</i>
<b>Molecular Weight</b>	<i>1210grams/mole – approximate average value</i>
<b>Molecular Formula</b>	<i>Complex hydrocarbon mixture</i>

## 10. REACTIVITY

**Dangerously Reactive** *with strong oxidising agents.*

**Also Reactive** *with avoid heat, high temperatures, direct sunlight.*

### **Chemical Stability**

*stable; will not polymerize*

### **Possibility of Hazardous Reactions**

*Hazardous polymerization will not occur.*

### **Conditions to Avoid**

*Avoid heat, sparks, open flames and other ignition sources.*

### **Mechanical Impact**

*not sensitive*

## 11. TOXICITY

Acute Toxicity	
<b>LD<sub>50</sub> (oral)</b>	>5000mg/kg (rat) – no mortality in 4 reports
<b>LD<sub>50</sub> (skin)</b>	>2000mg/kg (rabbit) – no mortality in 4 reports
<b>LC<sub>50</sub> (inhalation)</b>	>4960, >5000, >5080 & >5610mg/m <sup>3</sup> (rat) – no mortality in 4 reports

### Skin Corrosion/Irritation

*irritating if contact is prolonged.*

### Serious Eye Damage/Irritation

*probably not irritating; may irritate if contact is prolonged.*

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

*inhalation may cause headache, dizziness or drowsiness.*

#### Skin Absorption

*slight; no toxic effects likely by this route.*

#### Ingestion

*not known; may cause temporary diarrhoea – not a route of industrial exposure.*

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

*Prolonged exposure may cause dermatitis through removal of protective skin oils.*

#### Respiratory and/or Skin Sensitization

*Not known to be a respiratory sensitizer.*

#### Carcinogenicity

*12 of 12 reports conclude that CAS# 64742-95-6 is not carcinogenic. Component(s): Cumene - IARC: Group 2B – possibly carcinogenic to humans. NTP: Reasonably anticipated human carcinogen.*

### Reproductive Toxicity

#### Sexual Function and Fertility

*no known effect in humans or animals; but 1-ethyl-2-methylbenzene is a reproductive effector.*

#### Germ Cell Mutagenicity

*no known effect in humans or in animals.*

## 12. ECOLOGICAL INFORMATION

<b>Bioaccumulation</b>	<i>not a bioaccumulator</i>
<b>Persistence and Degradability</b>	<b>Biodegradation -</b> <i>biodegrades readily with oxygen; 74%, 77%, 89%, 90% &amp; 96% in 28 days &amp; 94% in 25 days</i>
	<b>Abiotic Degradation -</b> <i>reacts with atmospheric hydroxyl radicals; estimated ½-life in air</i>
<b>Mobility in soil, water</b>	<i>water insoluble; almost immobile in soil or water</i>
<b>Aquatic Toxicity</b>	
<b>LC50 (Fish, 96hr)</b>	<i>8.2, 11 &amp; 15mg/litre (Pimephelas promelas), 10 &amp; 15mg/litre (Oncorhynchus mykiss)</i>

<b>EC50 (Crustacea, 48hr)</b>	4.5, 7.6, 10, 12, 13, 18, 18 & 32mg/litre ( <i>Daphnia magna</i> )
<b>EC50 (Algae, 72hrs)</b>	3.1, 6.4, 56 & 64mg/litre ( <i>Pseudokirchnerella subcapitata</i> )
<b>EC50 (Bacteria)</b>	15.4mg/litre ( <i>Tetrahymena pyriformis</i> – QSAR estimate)

### 13. DISPOSAL

#### Water Disposal

Do not flush to sewer, recycle solvent if possible, may be incinerated in approved facility

#### Containers

**Drums** should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.

**Pails** must be vented and thoroughly dried prior to crushing and recycling.

**IBCs** (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5yrs).

**Steel containers** must be inspected, pressure tested & recertified every 5 years.

***Never cut, drill, weld or grind on or near this container,  
even if empty***

### 14. TRANSPORT CLASSIFICATION

<b>Canada TDG</b>	<b>PIN</b>	UN1268	
<b>AND</b>	<b>Shipping Name</b>	Petroleum Distillates, n.o.s., (naphtha)	
<b>U.S.A. 49 CFR</b>	<b>Class &amp; Packing Group</b>	3, PG III	

<b>Marine Pollutant</b>	Not a Marine Pollutant	
<b>ERAP Required</b>	NO	
<b>Reportable Quantity</b>	NO	
<b>E R G No.</b>	128	

***Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.***

### 15. REGULATIONS

<b>Canada DSL</b>	On Inventory
<b>U.S.A. TSCA</b>	On Inventory
<b>Europe EINECS</b>	On Inventory

#### Canadian Regulations

##### CEPA - National Pollutant Release Inventory (NPRI)

Part 5. (Light aromatic solvent naphtha) Part 1A, Part 5. (1,2,4-Trimethylbenzene) Part 1A. (Cumene)

## U.S.A. Regulations

**SARA 302:** this product contains no known chemicals regulated under SARA 302.

**SARA 311/312:** Based upon available information, this material is classified as the following health and/or physical hazards according to Section SARA 311/312 -

Physical Hazards - Flammable liquids

Health Hazards – Aspiration, Carcinogenicity, Single Target Organ Toxicity

**SARA 313:** this product contains chemicals regulated under SARA 313 -

Cumene – CAS # 98-82-8, Typical value: <1.1%

Pseudocumene (1,2,4- trimethylbenzene), CAS # 95-63-6, Typical value: < 40%

CERCLA:	<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Value</u>	<u>Component RQ</u>
	CUMENE	98-82-8	< 1.1%	5000 LBS

## US State Regulations

Chemicals associated with the product which are subject to the state right-to-know regulations are listed along with the applicable state(s):

Rhode Island - Listed

Pennsylvania - Listed

New Jersey – Listed

Minnesota – Listed

Illinois – Listed

**California Proposition 65:** This material is known to contain or may contain, trace quantities of a chemical substance(s) known to the State of California to cause cancer, reproductive and / or reproductive toxicity under California Proposition 65.

**Cumene (CAS # 98-82-8) – Carcinogens list - YES**

## International Regulations

International Inventories - listed on the chemical inventories of the following countries or qualifies for an exemption:

Australia (AICS)

China (IECSC)

Japan (ENCS)

Korea (KECI)

Philippines (PICCS)

New Zealand (NZIoC)

## 16. OTHER INFORMATION

NFPA RATING	Health	2	Flammability	2	Instability	0
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Prepared for Megaloid Laboratories Limited by Richard Koscher

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Revision Dates: May 2007, May 2010, May 2013, Oct 2015, August 2018, January 2019

<b>Key to Abbreviations</b>	ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration RTECS® = Registry of Toxic Effects of Chemical Substances
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<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA (“BIOVIA”). Available from Canadian Centre for Occupational Health and Safety (CCOHS).
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